

Atlantic Richfield Company

Material Safety Data Sheet

MSDS

443

1828

Material Name

Soluble Oil DO

Adapted from USDL form OSHA -20 - May 1972

Section I - General	Manufacturer's name Atlantic Richfield Company		Specification Code 17376
	Manufacturer's Address 515 South Flower Street, Los Angeles, California 90071		Emergency Telephone (24 hr.) 312/468-9300
	Name (Brand-Trade) and Synonyms Not Applicable (N/A)	Chemical Family Lubricating Oil	

Section II - Summary of Hazardous Information	Summary CAUTION: SLIGHTLY COMBUSTIBLE. Use with adequate ventilation and avoid breathing high concentrations of mists or vapors. Avoid eye contact and prolonged or repeated skin contact.
	TLV 5mg/m ³ (Source) oil mist particulate ACGIH 1975

Section III - Physical and Reactivity Data	Boiling Point (F°) > 600	*IBP 212 to > 600	Evaporation Rate (Ether = 1) 1	Other 250 SUS/100°F Viscosity	
	Vapor Pressure (mm hg at 70°F) 0.1	Incompatibility (materials to avoid) Strong acids, alkalies, and oxidizers such as liquid chlorine and oxygen.			
	Vapor Density (air = 1 at 60-90°F) 10	Stability <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable Conditions to Avoid: Heat and open flame.			
	Specific Gravity (H ₂ O = 1 at 39.2°F) 0.93	Hazardous Polymerization May <input type="checkbox"/> Occur <input checked="" type="checkbox"/> Not Occur		Appearance and Odor Dark liquid - pine odor	
	Volatile Characteristics Negligible	Hazardous Decomposition Products Product may form carbon monoxide, carbon dioxide, and trace oxides and/or compounds of sodium, sulfur, and potassium.			
Solubility in Water See below *					

Section IV - Fire and Explosion Data	Flash point (F°) (method used) (N/A*) D92	Flammable Limits (% by volume in air) (at normal atmos. temp. & press.)	Lower Flammable Limit N/A	Upper Flammable Limit N/A
	Autoignition Temperature (F°) Approx. 700	Extinguishing Media Dry chemical, CO ₂ , foam, and water fog		

Special Fire Fighting Procedures

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment to avoid breathing normal products of combustion and oxygen deficiencies.

* Product contains small percentage of water. Emulsifiable in water with agitation.

Unusual Fire and Explosion Hazards

Slightly combustible. When heated above the boiling point of the hydrocarbon components this material may release flammable vapors which can burn or be explosive in confined spaces and exposed to a source of ignition. Mists or sprays may be combustible at temperatures below the boiling point. Keep away from heat and open flames.

Section V - First Aid and Emergency Procedures	Note to Physician N/A
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Eye Contact Flush eyes with plenty of low pressure water.

Skin Contact Remove by wiping, wash skin with soap and plenty of water.

Inhalation Remove from contaminated area to fresh air.

Ingestion If large amounts of this material are ingested, give quantities of water, induce vomiting and get medical attention.

**Section VI
Health Hazard Data****Primary Hazard**

Skin disorders resulting from prolonged or repeated skin contact and lack of cleanliness

Route of Exposure	Affected	Signs and Symptoms
Eye Contact	X	Eye irritation may result from mists or from contact with liquid.
Skin Irritation	X	Skin irritation leading to dermatitis may result from prolonged or repeated skin contact.
Inhalation	X	Inhalation of mist or vapors may cause respiratory irritation.
Ingestion		
Skin Absorption		

Effects of Overexposure

Contact of the oil with eyes may result in slight eye irritation. Prolonged or repeated skin contact may cause skin irritation and dermatitis.

**Section VII
Spill or Leak Procedure****Precautions if Material is Spilled or Released**

Remove all sources of ignition around spill area.
Clean up spill as soon as possible.

Waste Disposal Methods

Use absorbent material such as clay or diatomaceous earth to clean up spill. Dispose of contaminated material in an approved disposal site. Comply with Federal, State and local regulations concerning waste disposal into landfills.

**Section VIII Special
Protection Information****Ventilation**

Use adequate ventilation to keep oil mists of this material below applicable standard. (See Section II-TLV)

Eye Protection

Chemical type goggles or face mask should be worn if splashing cannot be avoided.

Skin Protection

Avoid prolonged or repeated skin contact. If skin contact cannot be avoided, proper skin protection should be worn. This may consist of oil impervious clothing such as gloves, apron, boots, and facial protection.

Respiratory Protection

None needed under normal conditions with adequate ventilation. If exposure exceeds the TLV, respiratory protective equipment must be worn.

Other Protection

Impervious aprons and sleeves should be worn provided they do not create an accident hazard. They should be kept clean by frequent washing.

**Section IX
Special Precautions****Handling and Storage**

Store away from open flames.

General Comments

Use good personal hygiene practices. In case of skin contact wash with soap and water. Avoid using solvents (gasoline, kerosene, etc.) and harsh abrasive skin cleaners. Oil soaked clothing should be removed and laundered before reuse.

Date Issued

November, 1976

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MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP.

Dec. 3, 1976

Section I

MANUFACTURER'S NAME Andrew Brown of Koppers Co., Inc.

STREET ADDRESS 5431 District Blvd.

CITY, STATE, AND ZIP CODE Los Angeles, California 90040

EMERGENCY TELEPHONE NO. 587-5201

PRODUCT CLASS

MANUFACTURERS CODE IDENTIFICATION

P759-66

Zinc Chromate, Low Moisture Sensitivity Primer

TT-P-1757 Comp L

TRADE NAME

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV		LEL	VAPOR PRESSURE
		PPM	mg/M ³		
Zinc Chromate	30		0.1		
Toluene	2	100	375	1.2	38MM/Hg/20°C
Ethyl Benzene	2	100	435	1.0	10MM/Hg/125°C
Isobutyl Acetate	4.5	150	700	2.4	10MM/Hg/12.8°C
750 Solvent Chrvron	6.4	250	-	1.0	50MM/Hg/77°F
7 M & P	18.7	150	-	1.0	25MM/Hg/100°F
Isobutanol	4.6	100	300	1.2	10MM/Hg/21.7°C
Lead in 24% Lead Napthanate Drier	.09				

Section III — PHYSICAL DATA

BOILING RANGE 205-255°F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 59.5%

WEIGHT PER GALLON 10.12

Section IV — FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Flammable Liquid

FLASH POINT

25°F TCC

LEL 1.0

EXTINGUISHING MEDIA Carbon Dioxide, Foam or Dry Chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor may form explosive mixture between upper and lower explosive limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (Zinc Chromate) Not assigned, estimate .1 mg/m³
EFFECTS OF OVEREXPOSURE Headache, nausea, moderately irritating to eyes and skin

EMERGENCY AND FIRST AID PROCEDURES Remove victims from vapors - restore breathing if necessary.
Remove from skin with soap and water. Flush eyes with water.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID
INCOMPATIBILITY (Materials to avoid) N/A
HAZARDOUS DECOMPOSITION PRODUCTS Co, Co₂, aldehydes, and other organics, Lead Oxide, Chromic Oxide
HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove sources of ignition. Apply sawdust or other absorbent material. Keep material from spreading.

WASTE DISPOSAL METHOD Put in metal container and seal for disposal.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION For confined areas use Bureau of Mines Respiratory Device
Approval 25 B-13
BM 2304 Face Piece
BM 2304 Cartridge
BM 23-13 Filters
BM 23-13 Filter Clips

VENTILATION Ventilation should be adequate to keep lower level below LEL

PROTECTIVE GLOVES Rubber
EYE PROTECTION Safety Glasses
OTHER PROTECTIVE EQUIPMENT Rubber soles must be worn (no static electricity)

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Flammable - store away from open flame and high heat

OTHER PRECAUTIONS Do not take internally - avoid prolonged contact with skin

MATERIAL SAFETY DATA SHEET						ONE NO. 48-10888 May 31, 1977
SECTION I	MANUFACTURER'S NAME AND FSCM (Federal Supply Code for Manufacturers)					EMERGENCY PHONE NO.
	Anomet, Inc.					(213) 678-9323
	ADDRESS (Number, Street, City, State, and ZIP Code)					
	13703 Cordary Ave., Unit 8, Hawthorne, California 90250					
	CHEMICAL NAME AND SYNONYMS			TRADE NAME AND SYNONYMS		
	Bubble Fluid			Bubble Fluid 905 A		
	CHEMICAL FAMILY			FORMULA		
Wetting Agents			Inhibitors and Wetting Agents			
FEDERAL STOCK NUMBER (FSN)		GROSS WEIGHT (LBS)	OUTSIDE PACKAGE DIMENSIONS (Inches)			
		0.5	Cylindrical Cartridge 7 3/8" L-1 16			
MIL-STD-1341/NATIONAL FIRE PROTECTION ASSOCIATION STD 704M SIGNAL						
FLAMMABILITY <u>None</u> HEALTH <u>None</u> REACTIVITY <u>None</u> SPECIFIC HAZARD <u>None</u>						
SECTION II - HAZARDOUS INGREDIENTS	PAINTS, PRESERVATIVES, AND SOLVENTS	%	THRESHOLD LIMIT VALUE (Units)	ALLOYS AND METALLIC COATINGS	%	THRESHOLD LIMIT VALUE (Units)
	PIGMENTS			BASE METAL		
	CATALYST			ALLOYS		
	VEHICLE			METALLIC COATINGS		
	SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
	ADDITIVES			OTHERS		
	OTHERS					
	HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	THRESHOLD LIMIT VALUE (Units)
	None					
SECTION III PHYSICAL DATA	BOILING POINT (°F.)	212.0	SPECIFIC GRAVITY (H ₂ O=1)	1.01		
	VAPOR PRESSURE (mm Hg.)	17.5	PERCENT VOLATILE BY VOLUME (%)	99.8		
	VAPOR DENSITY (AIR=1)	1.01	EVAPORATION RATE (H ₂ O=1)	1.0		
	SOLUBILITY IN WATER	∞				
	APPEARANCE AND ODOR Clear No Odor					
SECTION IV - FIRE AND EXPLOSION HAZARD DATA	FLASH POINT (Method used)	None	FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIVE LIMIT	
	EXTINGUISHING MEDIA			None	None	
	SPECIAL FIRE FIGHTING PROCEDURES			N/A		
	UNUSUAL FIRE AND EXPLOSION HAZARDS			N/A		